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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/865,673	05/29/2001	Frederic Redondo	Q64566	4151
7590 12/02/2004 SUGHRUE, MION, ZINN, MACPEAK & SEAS, PLLC 2100 Pennsylvania Avenue, NW Washington, DC 20037-3213			EXAMINER IYER, RAMAKRISHNA R	
			ART UNIT 2663	PAPER NUMBER

DATE MAILED: 12/02/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/865,673

Applicant(s)

REDONDO ET AL.

Examiner

Raju Iyer

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on 5/29/01.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-13 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-13 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 29 May 2001 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____.
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____.

DETAILED ACTION

Specification

1. The disclosure is objected to because of the following informalities:
 - a. The Roman numeral “four” is written as (iiii) on Page 4 (lines 31, 35) and on subsequent pages (e.g. 6, 7). Recommended format is (iv).
 - b. On Page 6, the word “salvo” is used, to denote “burst” composition and decomposition. The meaning of “salvo” in this context is not clear.
 - c. In the description of Figure 3 on Page 6 (lines 12 – 17), item 4' in the figure is not explained.
 - d. In the description of Figure 4 on Page 6 (lines 22 – 27), item 3 in the figure is not explained.
 - e. On Page 7, (lines 9 – 10), the two mobiles are referred to as CTS mobiles. This appears to be in conflict with the description of Fig. 3 on Page 6 (lines 12 – 17).

Appropriate correction is required.

Claim Objections

2. Claim 2 is objected to because of the following informalities:

The Roman numeral “four” is written as (iiii). Recommended format is (iv).

Appropriate correction is required.

Claim Rejections - 35 USC § 112

3. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

4. Claims 1 –13 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Claims 1-13 contain numerous antecedent basis problems and unclear recitations apparently resulting from translation. The intended limitations of these claims therefore cannot be distinguished with accuracy. For example:

- In Claims 1 and Claim 6, it is not clear what is meant by “all processing operations” (line 10 and line 18, respectively). Also, it is not clear how data can be transferred from one interface to another, if it is not reproduced (line 12-13 and lines 20-21 respectively).
- In Claims 2 and 7, the slash (/) makes the claim indefinite, since it is not clear which of the processes are included or excluded.
- In Claims 5 and 10, it is not clear if the “communication device” is the same one mentioned in Claim 1 and Claim 6 respectively.
- In Claim 6, it is not clear if the claim listed is a method or a device (note references in line 1, line 8, line 10 and line 16)

Applicant is advised to carefully review the claims for full compliance with 35 U.S.C. 112, second paragraph.

Claim Rejections - 35 USC § 102

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:
- A person shall be entitled to a patent unless –
- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
6. Claims, 1,5, 6, 10 and 11 are rejected under 35 U.S.C. 102(e) as being anticipated by US Patent 6,404,775 (Leslie et al).
7. Regarding Claim 1, Leslie et al disclose a wireless “band-changing repeater that “allows terminals of a first communications system employing a first air protocol or radio interface, to communicate with terminals of a second air protocol or radio interface different from the first” (Abstract). In their invention, Leslie et al teach that the “protocol converting repeater” (Fig. 2), separates the signaling and data components, and processes the signaling component separately to enable it to be interpreted by each of said interfaces (Col. 17, lines 58-67), and furthermore, processes user data separately to transfer it from one interface to another (Col. 18, lines 41 – 46). Therefore the limitations described in Claim 1 are judged to have been anticipated by Leslie et al.

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8. Regarding Claim 5, Leslie et al disclose all the limitations of the claim as applied to Claim 1 above (paragraph 7), and further Leslie et al teach that the wireless interface of their device is part of a cellular communication system (network) including base stations and mobile telephone switching office (Col. 3, lines 46-56).
9. Regarding Claim 6, Leslie et al disclose all the limitations of the claim as applied to Claim 1 above (paragraph 7).
10. Regarding Claim 10, Leslie et al disclose all the limitations of the claim as applied to Claim 6 (paragraph 9) and Claim 5 (paragraph 8) above.
11. Regarding Claim 11, Leslie et al disclose all the limitations of the claim as applied to Claim 6 (paragraph 9) above, and further, Leslie et al disclose that the two interfaces in their invention are radio interfaces providing transmission between stations of two networks (e.g. see Abstract).

Conclusion

12. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure (please see attachment).


Any inquiry concerning this communication or earlier communications from the examiner should be directed to Raju Iyer whose telephone number is (571)

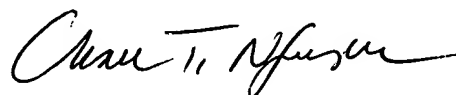
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272 6047. The examiner can normally be reached on weekdays from 7.00 a.m. - 4.00 p.m., except every other Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chau T. Nguyen can be reached on (571) 272 3126. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).


Raju Iyer



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